

DERWENT-ACC-NO: 2005-577487

DERWENT-WEEK: 200559

COPYRIGHT 2008 DERWENT INFORMATION LTD

TITLE: Loosening detection method of screw, involves  
freely

attaching reference pin to bolt and providing mark in  
nut, such that loosening of nut is detected by  
displacement of mark from reference pin

INVENTOR: YAMADA, F; YAMADA, K

PATENT-ASSIGNEE: YAMADA F[YAMAI] , YAMADA K[YAMAI]

PRIORITY-DATA: 2004JP-0042501 (February 19, 2004)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES
MAIN-IPC			
JP 2005233289 A	September 2, 2005	N/A	010
F16B 031/02			

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO
APPL-DATE		
JP2005233289A	N/A	2004JP-0042501
February 19, 2004		

INT-CL (IPC): F16B031/00, F16B031/02 , G01B005/00

ABSTRACTED-PUB-NO: JP2005233289A

BASIC-ABSTRACT:

**NOVELTY** - The method involves freely attaching a reference pin (6) to a bolt (10), and providing a mark (13) in the nut (12), such that the loosening of nut is detected by the displacement of the mark from the reference pin.

**DETAILED DESCRIPTION** - An INDEPENDENT CLAIM is included for loosening detector.

**USE** - For detecting loosening of screw at base of illuminating lamp provided at sleeper of railway and highway, and chassis of vehicle.

**ADVANTAGE** - Detects loosening of screw reliably.

**DESCRIPTION OF DRAWING(S)** - The figure shows a schematic view of the loosening detector.

loosening detector 2

reference pin 6

bolt 10

nut 12

mark 13

**CHOSEN-DRAWING:** Dwg.1/11

**TITLE-TERMS:** LOOSE DETECT METHOD SCREW FREE ATTACH  
REFERENCE PIN BOLT MARK NUT  
LOOSE NUT DETECT DISPLACEMENT MARK REFERENCE  
PIN

DERWENT-CLASS: Q61 S02

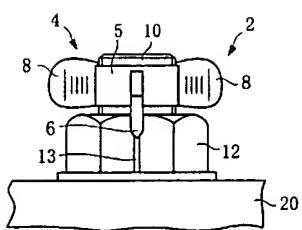
EPI-CODES: S02-A01C;

SECONDARY-ACC-NO:

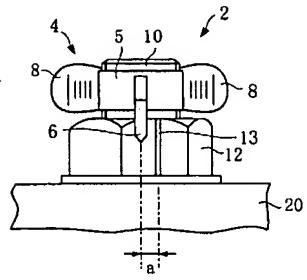
Non-CPI Secondary Accession Numbers: N2005-474221

- 26 指示片  
 27 基準点  
 30 傾斜片

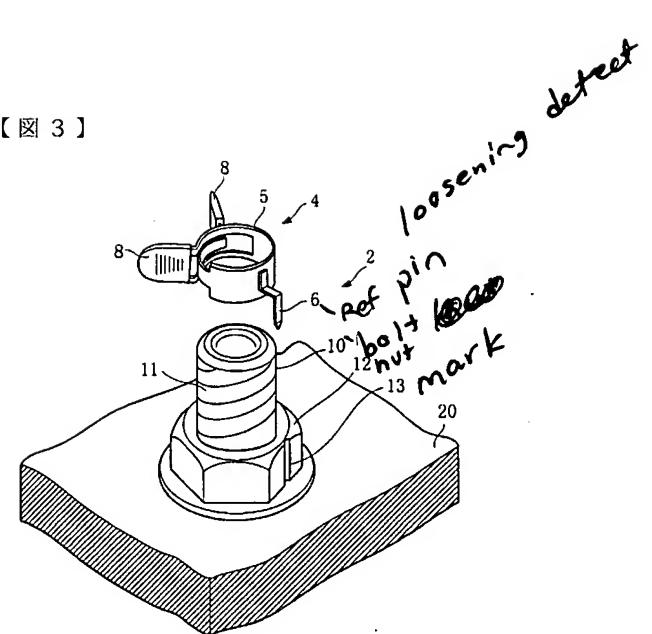
【図 1】



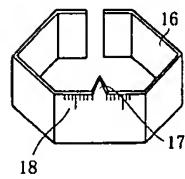
【図 2】



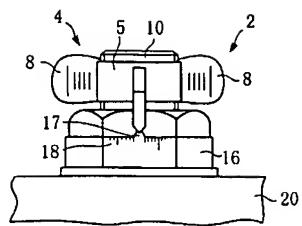
【図 3】



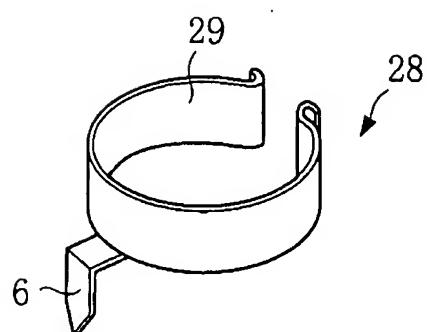
【図 4】



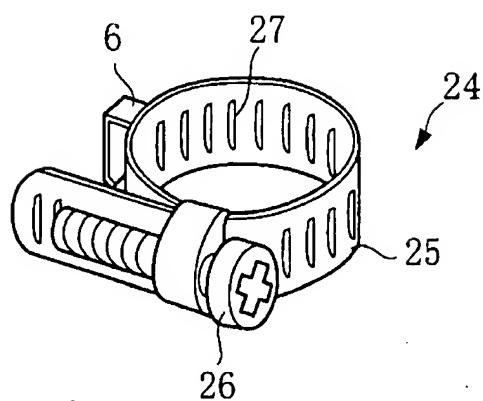
【図 5】



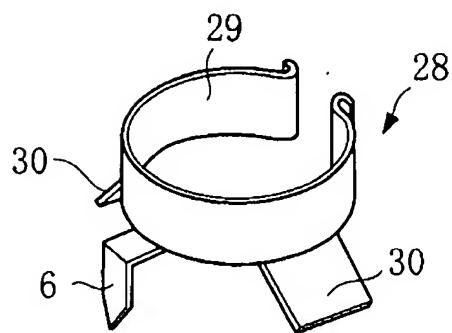
【図 7】



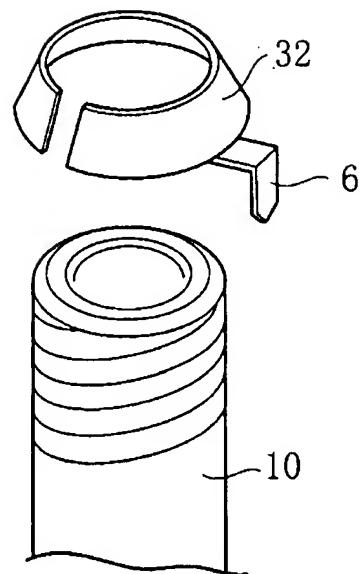
【図 6】



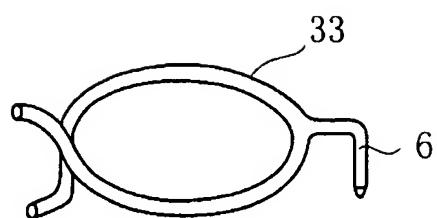
【図 8】



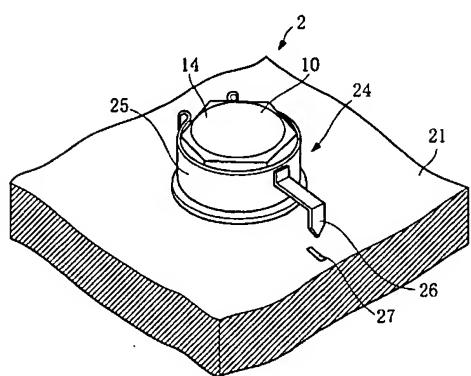
【図 9】



【図 1 0】



【図 1 1】



---

フロントページの続き

F ターム(参考) 2F062 AA02 AA81 BB10 BC61 CC22 CC27 EE09 EE37 EE62 HH10  
HH14 MM06